Club Color Wash 250 MKII V2

ORDERCODE 40137

SHOWELECTRONICS FOR PROFESSIONALS

Congratulations!

You have bought a great, innovative product from Showtec.
The Showtec Club Color Wash 250 MKII brings excitement to any venue. Whether you want simple plug-&-play action or a sophisticated DMX show, this product provides the effect you need.

You can rely on Showtec, for more excellent lighting products.
We design and manufacture professional light equipment for the entertainment industry.
New products are being launched regularly. We work hard to keep you, our customer, satisfied.
For more information: iwant@showtec.info

You can get some of the best quality, best priced products on the market from Showtec.
So next time, turn to Showtec for more great lighting equipment.
Always get the best -- with Showtec !

Thank you!

Showtec

Showtec Club Color Wash 250 MKII™ Product Guide

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WARNING

FOR YOUR OWN SAFETY, PLEASE READ THIS USER MANUAL CAREFULLY BEFORE YOUR INITIAL START-UP!

Unpacking Instructions

Immediately upon receiving this product, carefully unpack the carton and check the contents to ensure that all parts are present, and have been received in good condition. Notify the dealer immediately and retain packing material for inspection if any parts appear damaged from shipping or the carton itself shows signs of mishandling. Save the carton and all packing materials. In the event that a fixture must be returned to the factory, it is important that the fixture be returned in the original factory box and packing.

Your shipment includes:

- Showtec Club Color Wash 250 MKII with powercable 1m
- including hanging bracket
- User manual

CAUTION!
Keep this device away from rain and moisture!
Unplug mains lead before opening the housing!

FOR YOUR OWN SAFETY, PLEASE READ THIS USER MANUAL CAREFULLY BEFORE YOUR INITIAL START-UP!

SAFETY INSTRUCTIONS

Every person involved with the installation, operation and maintenance of this device has to:

- be qualified
- follow the instructions of this manual

CAUTION! Be careful with your operations.
With a dangerous voltage you can suffer
a dangerous electric shock when touching the wires!

Before your initial start-up, please make sure that there is no damage caused by transportation. Should there be any, consult your dealer and do not use the device.

To maintain perfect condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes written in this manual.

Please consider that damages caused by manual modifications to the device are not subject to warranty.

This device contains no user-serviceable parts. Refer servicing to qualified technicians only.

IMPORTANT:

The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual or any unauthorized modification to the device.

- Never let the power-cord come into contact with other cables! Handle the power-cord and all connections with the mains with particular caution!
- Never remove warning or informative labels from the unit.
- Never use anything to cover the ground contact.
- Never run the device without lamp!
- Never ignite the lamp if the objective-lens or any housing-cover is open, as discharge lamps may expose and emit a high ultraviolet radiation, which may cause burns.
- Never lift the fixture by holding it at the projector-head, as the mechanics may be damaged. Always hold the fixture at the transport handles.
- Never look directly into the light source.
- Never leave any cables lying around.
- Never unscrew the screws of the rotating gobo, as the ball bearing will otherwise be opened.
- Do not insert objects into air vents.
- Do not connect this device to a dimmerpack.
- Do not switch the device on and off in short intervals, as this would reduce the lamp's life.
- Do not touch the device's housing bare-handed during its operation (housing becomes very hot).
- Do not shake the device. Avoid brute force when installing or operating the device.
- Only use device indoor, avoid contact with water or other liquids.
- Only operate the fixture after having checked that the housing is firmly closed and all screws are tightly fastened.
- Only operate the device after having familiarized with its functions.
- Avoid flames and do not put close to flammable liquids or gases.
- Always replace the lamp, when it is damaged or deformed due to the heat.
- Always keep case closed while operating.
- Always allow free air space of at least 50 cm around the unit for ventilation.
- Always disconnect power from the mains, when device is not used, before cleaning or when replacing lamp! Only handle the power-cord by the plug. Never pull out the plug by tugging the power-cord.
- Make sure that the device is not exposed to extreme heat, moisture or dust.
- Make sure that the available voltage is not higher than stated on the rear panel.
- Make sure that the power-cord is never crimped or damaged. Check the device and the power-cord from time to time.
- If the lens is obviously damaged, it has to be replaced. So that its functions are not impaired, due to cracks or deep scratches.
- If device is dropped or struck, disconnect mains power supply immediately. Have a qualified engineer inspect for safety before operating.
- If the device has been exposed to drastic temperature fluctuation (e.g. after transportation), do not switch it on immediately. The arising condensation water might damage your device. Leave the device switched off until it has reached room temperature.
- If your Showtec device fails to work properly, discontinue use immediately. Pack the unit securely (preferably in the original packing material), and return it to your Showtec dealer for service.
- For adult use only. Movinghead must be installed out of the reach of children. Never leave the unit running unattended.
- For replacement use lamps and fuses of same type and rating only.
- Allow time to cool down, before replacing lamp.
- This device falls under protection class I. Therefore it is essential to connect the yellow/green conductor to earth.
- During the initial start-up some smoke or smell may arise. This is a normal process and does not necessarily mean that the device is defective.
- Repairs, servicing and electric connection must be carried out by a qualified technician.
- WARRANTY: Till one year after date of purchase.

CAUTION ! EYEDAMAGES !.
Avoid looking directly into the light source.
(meant especially for epileptics) !

OPERATING DETERMINATIONS

This device is not designed for permanent operation. Consistent operation breaks will ensure that the device will serve you for a long time without defects.

The minimum distance between light-output and the illuminated surface must be more than 1.3 meter.

The maximum ambient temperature t_a must never be exceeded.

If this device is operated in any other way, than the one described in this manual, the product may suffer damages and the warranty becomes void.
Any other operation may lead to dangers like short-circuit, burns, electric shock, lamp explosion, crash etc.

You endanger your own safety and the safety of others!

Rigging

Please follow the European and national guidelines concerning rigging, trussing and all other safety issues.

Do not attempt the installation yourself !
Always let the installation be carried out by an authorized dealer !

Improper installation can cause serious damage to people and property !

Connection with the mains

Connect the device to the mains with the power-plug.
Always pay attention, that the right color cable is connected to the right place.

International	EU Cable	UK Cable	US Cable	Pin
L	BROWN	RED	YELLOW/COPPER	FASE
N	BLUE	BLACK	SILVER	NUL
⏚	YELLOW/GREEN	GREEN	GREEN	EARTH

Make sure that the device is always connected properly to the earth!

⚠ Return Procedure ⚠

Returned merchandise must be sent prepaid and in the original packing, call tags will not be issued. Package must be clearly labeled with a Return Authorization Number (RMA number). Products returned without an RMA number will be refused. Highlite will not accept the returned goods or any responsibility. Call Highlite 0031-455667723 or mail aftersales@highlite.nl and request an RMA prior to shipping the fixture. Be prepared to provide the model number, serial number and a brief description of the cause for the return. Be sure to properly pack fixture, any shipping damage resulting from inadequate packaging is the customer's responsibility. Highlite reserves the right to use its own discretion to repair or replace product(s). As a suggestion, proper UPS packing or double-boxing is always a safe method to use.

Note: If you are given an RMA number, please include the following information on a piece of paper inside the box:

1) Your name
2) Your address
3) Your phone number
4) A brief description of the symptoms

Claims

The client has the obligation to check the delivered goods immediately upon delivery for any short-comings and/or visible defects, or perform this check after our announcement that the goods are at their disposal. Damage incurred in shipping is the responsibility of the shipper; therefore the damage must be reported to the carrier upon receipt of merchandise.

It is the customer's responsibility to notify and submit claims with the shipper in the event that a fixture is damaged due to shipping. Transportation damage has to be reported to us within one day after receipt of the delivery.

Any return shipment has to be made post-paid at all times. Return shipments must be accompanied with a letter defining the reason for return shipment. Non-prepaid return shipments will be refused, unless otherwise agreed in writing.

Complaints against us must be made known in writing or by fax within 10 working days after receipt of the invoice. After this period complaints will not be handled anymore.

Complaints will only then be considered if the client has so far complied with all parts of the agreement, regardless of the agreement of which the obligation is resulting.

Description of the device

Features

The Showtec Club Color Wash 250 MKII is a moving-head with high output and great effects.

- 1 Colour-wheel: 7 dichroic colours + open
- DMX-control via standard DMX-controller
- 2 DMX-control channels required
- Strobe-effect with adjustable speed (1 - 10 flashes/sec.)
- Auto mode, master-slave function
- Lamp: MSD 250 (80920P / 80920O / 80933O / 82603 / 80935)
- Beam angle: Manual adjustable from 16 to 26 degrees.
- Fuse T10A / 250V

Overview

Fig. 1

1) Lens

Backside

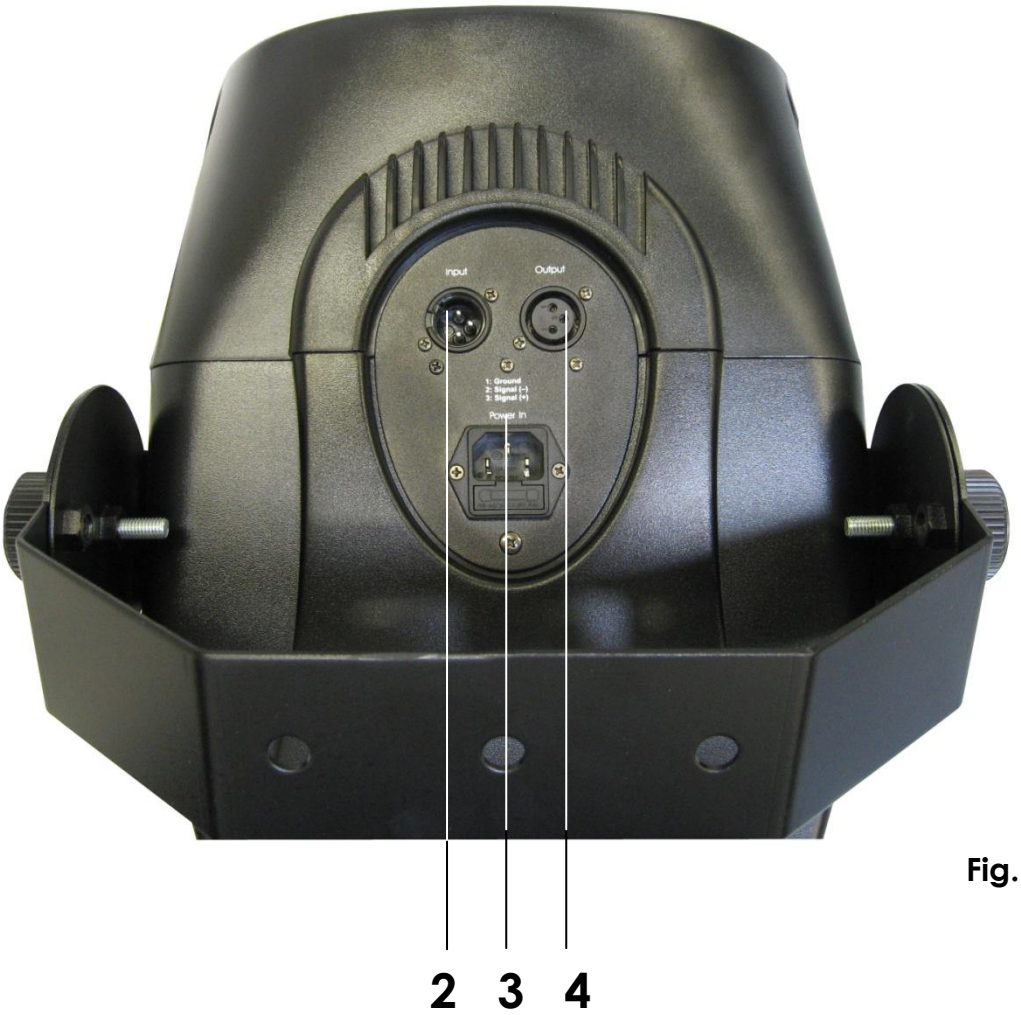


Fig. 2

2) DMX signal connector (IN)
3) IEC Connector + Fuse 10A 250V
4) DMX signal connector (OUT)

Installation

Installing the Lamp

The Showtec Club Color Wash 250 MKII uses the MSD 250 (80920P / 80920O / 80933O / 82603 / 80935)) reflectorbulb as manufactured by all popular manufacturers. Use only the appropriate lamp for your unit. Note that, product versions that use other lamps, may be offered in the future. Check your product specification label for information.

Always disconnect from electric mains power supply before changing lamps.

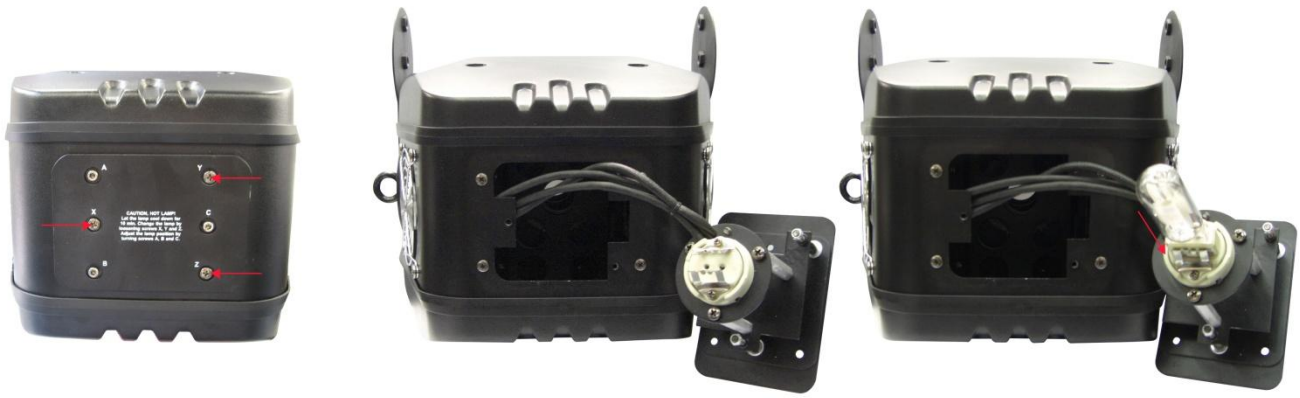
The lamp has to be replaced when it is damaged or deformed due to the heat.

Do not install lamps with a higher wattage! Lamps with a higher wattage generate temperatures the device was not designed for.

Damages caused by non-observance are not subject to warranty.

Procedure :

1. Loosen the 3 screws on the back of the housing.
2. Gently remove the small metal housing.
3. Read lamp instructions. Do not touch the lamp bulb glass. (See Figure 3.)
Oil on hands shortens the lamp life. (If you touch the bulb glass, wipe off the glass with a clean, lint-free towel and rubbing alcohol.).
4. Insert the lamp pins into the small holes in the lamp socket.
5. Put the lamp cover back and fasten the screws snugly.



1 **2** **3**

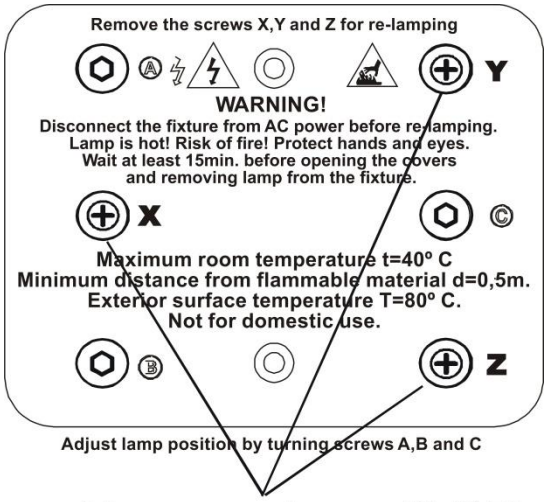
Fig. 3

Lamp Adjustment

You can adjust the lamp's position by turning the screws A, B, C.

The lamp position is set in the factory. As the lamps, which can be used, differ from manufacturer to manufacturer, it can be necessary to readjust the position. The lamp must be readjusted e.g., if the light does not seem to be evenly distributed within the ray of light.

Ignite the lamp and focus the ray of light on an even surface (wall). As the optimal distance between the lamp and the lens was already set during the installation with screw "A", only the "Hot Spot" (the brightest part of the ray of light) must be centered. Turn in addition screw "B" and "C". If the Hot Spot appears too bright, you can weaken its intensity, by moving the lamp closer to the reflector. Turn in addition screw "A", until the light is evenly distributed. If the light at the outside edge of the ray of light appears brighter as in the center, the lamp is too close to the reflector. In this case move the lamp away from the reflector, until the light is evenly distributed and the ray of light appears bright enough.


Remove the screws X,Y and Z for re-lamping
Y
WARNING!
Disconnect the fixture from AC power before re-lamping.
Lamp is hot! Risk of fire! Protect hands and eyes.
Wait at least 15min. before opening the covers
and removing lamp from the fixture.
X
Maximum room temperature t=40° C
Minimum distance from flammable material d=0,5m.
Exterior surface temperature T=80° C.
Not for domestic use.
Z
Adjust lamp position by turning screws A,B and C

3 lamp removal screws "X, Y, Z"

Backside Lamp Board

Fig. 4

Set Up and Operation

Follow the directions below, as they pertain to your preferred operation mode.
Before plugging the unit in, always make sure that the power supply matches the product specification voltage. Do not attempt to operate a 120V specification product on 230V power, or vice versa.

One Club Color Wash

1. Fasten the moving head onto firm trussing (Use a 30-kg rated or stronger C-clamp fastened onto the Club Color Wash). Leave at least 1 meter on all sides for air circulation.
2. Plug one end of the electric mains power cord into the IEC socket on the unit.
Then plug the other end of the cord into a proper electric power supply socket.

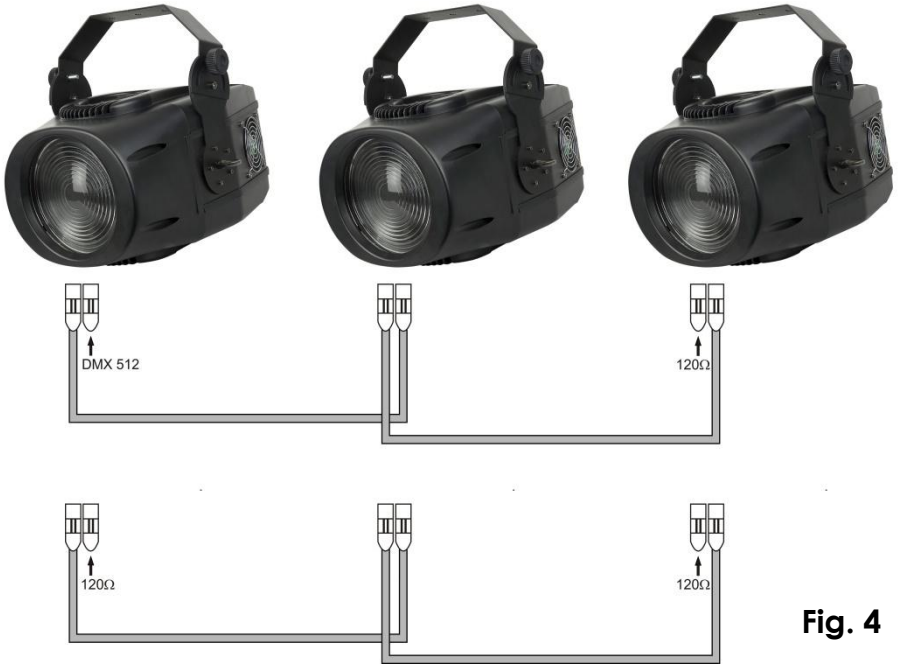
Multiple Club Color Wash

1. Fasten the effect light onto firm trussing (Use a 30-kg rated or stronger C-clamp fastened onto the Club Color Wash). Leave at least 1 meter on all sides for air circulation.
2. Use a 3-p XLR cable to connect the Club Washes and other devices.
The pins:

1. Earth
2. Signal -
3. Signal +

3. Link the units as shown in (figure 4), Connect a DMX signal cable from the first unit's DMX "out" socket to the second unit's "in" socket. Repeat this process to link the second, third, and fourth units.
4. Supply electric power: Plug electric mains power cords into each unit's IEC socket, then plug the other end of the mains power cord into proper electric power supply sockets, starting with the first unit.
Do not supply power before the whole system is set up and connected properly.

Multiple Club Color Wash Set Up



DMX-Set up

Master/Slave Set up

Fig. 4

Note : Link all cables before connecting electric power

DMX Protocol

Channel 1 – Colours

Linear color change following the movement of the slider. In this way you can stop the color-wheel in any position – also between two colors creating double-colored beams. Between 126 - 255 the color-wheel rotates continuously the so-called "Rainbow" effect.

0-1	Open / white
2-15	from White to Cherry Red
16-19	Cherry Red
20-33	from Cherry Red to Yellow
34-36	Yellow
37-51	from Yellow to Light Blue
52-54	Light Blue
55-67	from Light Blue to Red
68-71	Red
72-87	from Red to Olivine
88-90	Olivine
91-105	from Olivine to Pink
106-108	Pink
109-122	from Pink to UV
123-125	UV
126-255	Rainbow effect with increasing speed

Channel 2 – Shutter

0-5	Shutter Close
6-116	Gradual Open
117-139	Shutter Open
140-199	Strobe effect with increasing speed
200-249	Random strobe effect with increasing speed
250-255	Shutter Open

The Club Color Wash 250 MKII can be operated with a controller in **control mode** or without the controller in **stand-alone mode.**

Control Panel

When the indicator light is on, means the Club Color Wash is working.

Fig. 5

Control Mode

The fixtures are individually addressed 001 - 511 on a data-link and connected to the controller.
The fixtures respond to the DMX signal from the controller. (When you select the DMX address and save it, the controller will display the saved DMX address the next time.)

DMX Addressing

The control panel on the front side of the base allows you to assign the DMX fixture address, which is the first channel from which the Club Color Wash will respond to the controller.
Please note when you use the controller, the unit has **2** channels.
When using multiple Club Color Wash, make sure you set the DMX addresses right.
Therefore, the DMX address of the first Club Color Wash should be **1(001)**; the DMX address of the second Club Color Wash should be **1+2=3 (003**); the DMX address of the third Club Color Wash should be **3+2=5 (005)**, etc.
Please, be sure that you don't have any overlapping channels in order to control each Club Color Wash correctly.
If two or more Club Color Wash are addressed similarly, they will work similarly.
For address settings, please refer to the instructions under "Addressing' (menu A001)

Controlling:

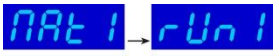
After having addressed all Club Color Wash fixtures, you may now start operating these via your lighting controller.
Note: After switching on, the Club Color Wash will automatically detect whether DMX 512 data is received or not. If there is no data received at the DMX-input, the "**LED** " on the control panel will not flash.
The problem may be:
- The XLR cable from the controller is not connected with the input of the Club Color Wash.
- The controller is switched off or defective, the cable or connector is detective, or the signal wires are swapped in the input connector.

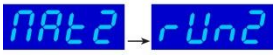
Note: It's necessary to insert a XLR termination plug (with 120 Ohm) in the last fixture in order to ensure proper transmission on the DMX data link.

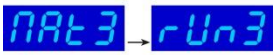
MODE 1: as default mode. Receive DMX512 signal, set the desired address via the UP/DOWN buttons.

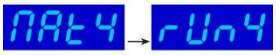
DMX mode: select channel 1 - channel 512

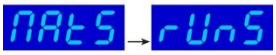
MODE 2: as Auto program of master unit, select 8 different auto program from to via up/down buttons. Press the ENTER button to confirm your selection. Press MODE-ESC cancel the selection and enter to next mode.

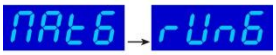
 Master Speed 1

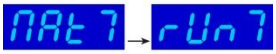
 Master Speed 2

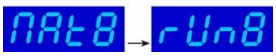
 Master Speed 3

 Master Speed 4

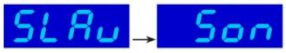
 Master Speed 5

 Master Speed 6

 Master Speed 7

 Master Speed 8

MODE 3: Slave mode, press ENTER button to follow the master unit. Press MODEESC cancel selection and enter to next mode.

 Slave mode: slave

MODE 4: Press the MODE/ESC button until the display shows / and set desired function via UP/DOWN buttons. as LED positive mode and as LED Negative mode. Press the ENTER button confirm the function and the display will shows "DMX" or "MASTER/SLAVE" mode that you selected before.

LED mode: Positive

LED mode: Negative

MODE 5: Press the MODE/ESC button until the display shows , Press the ENTER button will system reset.

System reset

MODE 6: Press the MODE/ESC button until the display shows , Press the ENTER button will go back to the default mode.

Load default

Remotely controllable functions

Colour-wheel
The Club Color Wash contains a colour-wheel with 9 colours and white. The colour-wheel can be positioned between two adjacent colours in any position. It is also possible to rotate the colour-wheel continuously at different speeds ("Rainbow effect" in both directions).

Shutter
This unit may be used for strobe effect (1-10 flashes per second).

Stand-alone Mode
The fixtures on a data-link are not connected to the controller, but can execute pre-set programs, which can be different for every fixture.
To set the program to be played, see the page 10. Stand-alone operation" can be applied to a single fixture (the fixture may be set to the master/slave mode or controller mode) or to multiple fixture operating synchronously.
For synchronous operation of multiple fixtures the fixtures must all be connected on a data-link and one of them is set as a master (master mode) and the rest as slaves (slave mode). The DMX address of all the slaves are assigned to 001 and on that particular slave address only one fixture can be connected. To the fixture as the master or slave, see "Addressing" (menu 001).
If the master fixture resets or runs a test (program), all slaves will execute these acts too.
You can't play or edit any program on a slave, if the master is switched on and connected to the master/slave chain.
Note: Disconnect the fixtures from the DMX controller before master/slave operating, otherwise data collisions can occur and the fixtures will not work properly!
It's necessary to insert the XLR termination plug (with 120 Ohm) into the input of the master fixture and into the output of the last slave fixture in the data-link, in order to ensure proper transmission on the data link.
From the master's control panel it is possible to control any slave in a master/slave chain.

Channels settings

1. Colour wheel 1
2. Shutter

Colorwheel

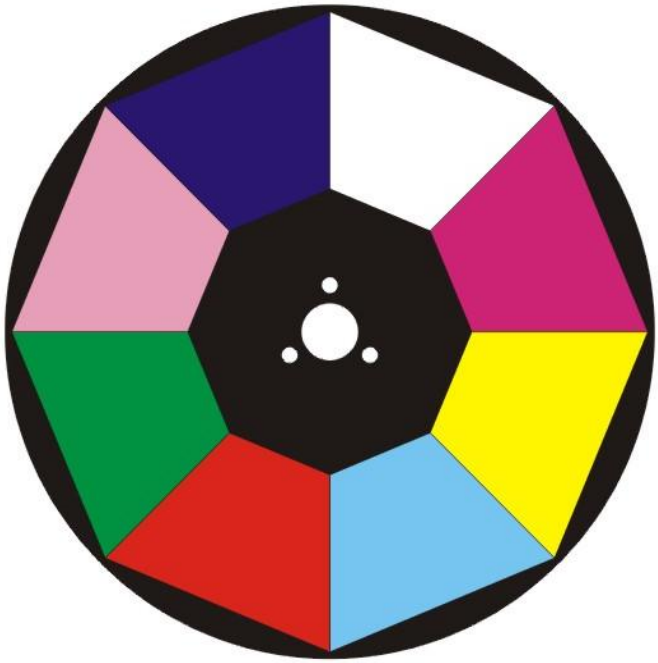


Fig. 6

Maintenance

The operator has to make sure that safety-relating and machine-technical installations are to be inspected by an expert after every four years in the course of an acceptance test.
The operator has to make sure that safety-relating and machine-technical installations are to be inspected by a skilled person once a year.

The following points have to be considered during the inspection:
1. All screws used for installing the device or parts of the device have to be tightly connected and must not be corroded.
2. There may not be any deformations on housings, fixations and installation spots.
3. Mechanically moving parts like axles, eyes and others may not show any traces of wearing.
4. The electric power supply cables must not show any damages or material fatigue.

The Showtec Club Color Wash 250 MKII requires almost no maintenance. However, you should keep the unit clean.
Otherwise, the fixture's light-output will be significantly reduced. Disconnect the mains power supply, and then wipe the cover with a damp cloth. Do not immerse in liquid. Wipe lens clean with glass cleaner and a soft cloth. Do not use alcohol or solvents.
The front PC lens will require weekly cleaning, as smoke-fluid tends to build up residues, reducing the light-output very quickly.
The cooling-fans, colour-filters, the gobo-wheel, the gobos and the internal lenses should be cleaned monthly with a soft brush.
Please clean internal components once a year with a light brush and vacuum cleaner.
Keep connections clean. Disconnect electric power, and then wipe the DMX and audio connections with a damp cloth. Make sure connections are thoroughly dry before linking equipment or supplying electric power.

Changing the Lamp

1. Disconnect mains power supply. Loosen the 3 screws on the back of the housing.
2. Gently remove the small metal housing.
3. Follow directions for installing a new lamp, page 7.

Replacing a Fuse

Power surges, short-circuit or inappropriate electrical power supply may cause a fuse to burn out. If the fuse burns out, the product will not function whatsoever. If this happens, follow the directions below to do so.

1. Unplug the unit from electric power source.
2. Insert a flat-head screwdriver into a slot in the fuse cover. Gently pry up the fuse cover. The fuse will come out.
3. Remove the used fuse. If brown or unclear, it is burned out.
4. Insert the replacement fuse into the holder where the old fuse was. Reinsert the fuse cover. Be sure to use a fuse of the same type and specification. See the product specification label for details.

Troubleshooting

No Light, No Movement - All Products

This troubleshooting guide is meant to help solve simple problems. If a problem occurs, carry out the steps below in sequence until a solution is found. Once the unit operates properly, do not carry out following steps.

If the light effect does not operate properly, refer servicing to a technician.

Response: Suspect three potential problem areas: the power supply, the lamp, the fuse.

1. Power supply. Check that the unit is plugged into an appropriate power supply.
2. The lamp. Replace the old lamp with a new one with the same specifications. See page 8 for replacing lamps.
3. The fuse. Replace the fuse. See page 16 for replacing the fuse.

No Response to DMX

Response: Suspect the DMX cable or connectors, a controller malfunction, a light effect DMX card malfunction.

1. Check the DMX cable: Unplug the unit; change the DMX cable; then reconnect to electrical power. Try your DMX control again.
2. Determine whether the controller or light effect is at fault. Does the controller operate properly with other DMX products ? If not, take the controller in for repair. If so, take the DMX cable and the light effect to a qualified technician.

See next page for more problem solving.

Problem	Probable cause(s)	Remedy
One or more fixtures are completely dead.	No power to the fixture	· Check that power is switched on And cables are plugged in.
	Primary fuse blown.	· Replace fuse.
Fixtures reset correctly, but all respond erratically or not at all to the controller.	The controller is not connected.	· Connect controller.
	3-pin XLR Out of the controller does not match XLR Out of the first fixture on the link (i.e. signal is reversed).	· Install a phase reversing cable between the controller and the first fixture on the link.
Fixtures reset correctly, but some respond erratically or not at all to the controller.	Poor data quality	· Check data quality. If much lower than 100 percent, the problem may be a bad data link connection, poor quality or broken cables, missing termination plug, or a defective fixture disturbing the link.
	Bad data link connection	· Inspect connections and cables. Correct poor connections. Repair or replace damaged cables.
	Data link not terminated with 120 Ohm termination plug.	· Insert termination plug in output jack of the last fixture on the link.
	Incorrect addressing of the fixtures.	· Check address setting.
	One of the fixtures is defective and disturbs data transmission on the link.	· Bypass one fixture at a time until normal operation is regained: unplug both connectors and connect them directly together. · Have the defective fixture serviced by a qualified technician.
	3-pin XLR Out on the fixtures does not match (pins 2 and 3 reversed).	· Install a phase-reversing cable between the fixtures or swap pin 2 and 3 in the fixture, that behaves erratically.
Shutter closes suddenly	The color wheel, gobo wheel, or a gobo has lost its index position and the fixture is resetting the effect.	· Contact a technician for servicing if the problem persists.
No light	The power supply settings do not match local AC voltage and frequency.	· Disconnect fixture. Check settings and correct if necessary.
	Lamp missing or blown	· Disconnect fixture and replace lamp.
Lamp cuts out intermittently.	Fixture is too hot.	· Allow fixture to cool. · Clean fan. · Make sure air vents at control panel and front lens are not blocked. · Turn up the air conditioning.
	The power supply settings do not match local AC voltage and frequency.	· Disconnect fixture. Check settings and correct if necessary.

Product Specification

Model: Showtec Club Color Wash 250 MKII
Voltage: 240V-50Hz (CE)
Fuse: 10A / 250V
Dimensions: 425x290x385mm (LxWxH)
Weight: 11,76 kg

Operation and Programming

Signal pin OUT: pin 1 earth, pin 2 (-), pin 3 (+)
Set Up and Addressing: LED control panel
DMX Channels: 2
Signal input 3-pin XLR male
Signal output 3-pin XLR female

Lamp

Allowed lamp models*:
Showtec NSD 250/2 (2000 hr) ordercode 82603
Philips MSD 250 (3000 hr; 6700K) ordercode 80920P
Osram HSD 250 (2000 hr; 6000K) ordercode 80926O
Osram HSD 250/78 (1000 hr; 7800K) ordercode 80933O
Osram HSD 250/80 (1000 hr; 8000K) ordercode 80935
Control: Automatic and DMX remote ON / OFF

Electro-mechanical effects

1 Colour-wheel: 7 colours + open
Colour-wheel with variable rotation speed
All lenses are anti-reflection coated
High luminous-efficiency parabolic system
Strobe-effect with variable speed (1 flash -- 10 flashes/sec.)
DMX-control via standard DMX-controller

Max. ambient temperature t_a: 40°C; Max. housing temperature t_B: 80°C

Minimum distance:

Minimum distance from flammable surfaces: 0.5m
Minimum distance to lighted object: 1.3m

*: Versions for other lamps may be produced. Please check the specification label on your product.

Design and product specifications are subject to change without prior notice.

CE

Website: www.Showtec.info
Email: service@highlite.nl

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